

and/or orientation information is carried out and that the latter information is retransferred.

18. The method of claim 13 wherein reflecting markers are lighted by a lighting device (8, 9, 10) allocated to an image recording device (1) characterized in that the retransferred information is used for controlling said lighting device (8, 9, 10).

19. The method of claim 18 characterized in that the luminous power of said lighting device (8, 9, 10) is controlled.

20. The method of claim 18 characterized in that the spatial light distribution of said lighting device (8, 9, 10) is controlled.

21. The method of claim 18 characterized in that a previously prepared look-up table is used for controlling said lighting device (8, 9, 10).

22. The method of claim 18 characterized in that the luminous intensity is controlled in such a way that the maximum luminosity of said imaged markers (4) remains close to a predetermined value, particularly at approximately 80% of the maximum resolvable luminosity.

23. A computer program with program code means for executing all steps of any of claims 13 to 22, when the computer program is executed on a computer or on said at least one computing device (2, 3).

24. A computer program product with program code means, which are stored in a computer-readable data carrier, for executing a method of any of claims 13 to 22, when the

computer program is executed on a computer or on said at least one computing device (2, 3).